

**RECEIVED
CENTRAL FAX CENTER**

U.S. Patent Application No.: 10/062,112
Art Unit: 1714
Page 2

OCT 31 2007

AMENDMENT TO THE CLAIMS

1-2. (cancelled)

3. (previously presented) An ink composition comprising a) a liquid vehicle, b) at least one modified pigment comprising a pigment having attached at least one functional group, c) at least one salt having a polyvalent ion, and d) at least one polymer comprising at least one functional group, wherein said functional group of the modified pigment and of the polymer are capable of coordinating with said polyvalent ion and are anionic groups, ionizable groups that form anionic groups, or a mixture of anionic groups and ionizable groups that form anionic groups, wherein the salt comprises a polyvalent metal cation, wherein the vehicle is a non-aqueous vehicle, and wherein the ink composition is an inkjet ink composition.

4. (cancelled)

5. (previously presented) The ink composition of claim 3, wherein the functional group of the modified pigment comprises at least one organic group.

6. (previously presented) The ink composition of claim 5, wherein the organic group comprises at least one anionic group, at least one ionizable group that forms an anionic group, or a mixture of at least one anionic group and at least one ionizable group that forms an anionic group.

7. (previously presented) The ink composition of claim 5, wherein the organic group comprises at least one carboxylate group or sulfonate group.

8. (cancelled)

U.S. Patent Application No.: 10/062,112

Art Unit: 1714

Page 3

9. (previously presented) The ink composition of claim 3, wherein the functional group of the modified pigment comprises at least one carboxylate group or sulfonate group.

10. (cancelled)

11. (previously presented) The ink composition of claim 3, wherein the pigment is carbon black, graphite, vitreous carbon, finely-divided carbon, activated carbon, activated charcoal, or mixtures thereof.

12. (original) The ink composition of claim 11, wherein the pigment is carbon black.

13. (previously presented) The ink composition of claim 3, wherein the pigment is a white pigment, a black pigment, a blue pigment, a brown pigment, a cyan pigment, a green pigment, a violet pigment, a magenta pigment, a red pigment, a yellow pigment, combinations thereof, or a pigment having a white shade, a black shade, a blue shade, a brown shade, a cyan shade, a green shade, a violet shade, a magenta shade, a red shade, or a yellow shade.

14. (cancelled)

15. (previously presented) The ink composition of claim 3, wherein the polyvalent metal cation is a divalent metal cation.

16. (previously presented) The ink composition of claim 3, wherein the polyvalent metal cation is a calcium, cadmium, copper, iron, magnesium, nickel, zinc, aluminum, or zirconium cation.

U.S. Patent Application No.: 10/062,112

Art Unit: 1714

Page 4

17. (previously presented) The ink composition of claim 3, wherein the polyvalent metal cation is selected from the group consisting of: Ca^{+2} , Cd^{+2} , Cu^{+2} , Fe^{+2} , Mg^{+2} , Ni^{+2} , Zn^{+2} , Al^{+3} , Fe^{+3} , and Zr^{+4} .

18. (previously presented) The ink composition of claim 3, wherein the polyvalent ion of the salt is Zn^{+2} or Zr^{+4} .

19. (previously presented) The ink composition of claim 3, wherein the polyvalent ion of the salt is Zn^{+2} .

20-22. (cancelled)

23. (previously presented) The ink composition of claim 3, wherein the functional group of the polymer comprises at least one carboxylate group or sulfonate group.

24. (previously presented) The ink composition of claim 3, wherein the polymer is selected from the group consisting of: polyacrylic acid, polymethacrylic acid, copolymers of acrylic acid, copolymers of methacrylic acid, copolymers of maleic acid, and salts thereof.

25. (previously presented) The ink composition of claim 3, wherein the polymer is a styrene-acrylate polymer or a styrene-maleic acid polymer.

26-28. (cancelled)

29. (previously presented) A method of generating an image comprising the steps of: 1) incorporating into a printing apparatus an ink composition comprising a liquid vehicle, at least one modified pigment comprising a pigment having attached at least one functional group, at least one salt with a polyvalent ion, and at least one polymer comprising at least one functional

U.S. Patent Application No.: 10/062,112

Art Unit: 1714

Page 5

group, and 2) generating an image on a substrate, wherein said functional group of the modified pigment and of the polymer are capable of coordinating with said polyvalent ion and are anionic groups, ionizable groups that form anionic groups, or a mixture of anionic groups and ionizable groups that form anionic groups, wherein the salt comprises a polyvalent metal cation, wherein the liquid vehicle is a non-aqueous vehicle, and wherein said method is an inkjet ink printing method.

30-32. (cancelled)

33. (previously presented) An ink composition comprising a) a liquid vehicle, b) at least one modified pigment comprising a pigment having attached at least one functional group, c) at least one salt having a polyvalent ion, and d) at least one polymer comprising at least one functional group, wherein said functional group of the modified pigment and of the polymer is capable of coordinating with said polyvalent ion and is cationic and wherein the salt comprises a polyvalent anion, wherein the vehicle is a non-aqueous vehicle.

34-48. (cancelled)

49. (previously presented) A method of generating an image comprising the steps of: 1) incorporating into a printing apparatus an ink composition comprising a liquid vehicle, at least one modified pigment comprising a pigment having attached at least one functional group, at least one salt with a polyvalent ion, and at least one polymer comprising at least one functional group, and 2) generating an image on a substrate, wherein said functional group of the modified pigment and of the polymer is capable of coordinating with said polyvalent ion and is cationic and wherein the salt comprises a polyvalent anion, wherein the liquid vehicle is a non-aqueous vehicle.

50. (cancelled)

U.S. Patent Application No.: 10/062,112

Art Unit: 1714

Page 6

51. (new) An inkjet ink composition comprising

- a) a non-aqueous liquid vehicle,
- b) at least one modified pigment comprising a pigment having attached at least one functional group,
- c) at least one salt having a polyvalent ion, and
- d) at least one polymer comprising at least one functional group,

wherein said functional group of the modified pigment and of the polymer are capable of coordinating with said polyvalent ion and are anionic groups, ionizable groups that form anionic groups, or a mixture of anionic groups and ionizable groups that form anionic groups; and wherein the polyvalent ion of the salt is a cadmium, copper, iron, magnesium, nickel, zinc, aluminum, or zirconium cation.

52. (new) The inkjet ink composition of claim 51, wherein the polyvalent ion of the salt is Cd^{+2} , Cu^{+2} , Fe^{+2} , Mg^{+2} , Ni^{+2} , Zn^{+2} , Al^{+3} , Fe^{+3} , and Zr^{+4} .

53. (new) The inkjet ink composition of claim 51, wherein the polyvalent ion of the salt is Zn^{+2} or Zr^{+4} .

54. (new) The ink composition of claim 51, wherein the polyvalent ion of the salt is Zn^{+2} .